

# Cesarean Births

## Cesarean Live Births

**INDICATOR:** Cesarean births

**DEFINITION:** The proportion of live births delivered via Cesarean section (c-section)

**NUMERATOR:** The number of Cesarean live births, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**RISK FACTORS:** Older maternal age, previous c-section, pregnancy complications, sexually transmitted disease, obesity, diabetes, extreme neonatal birth weight

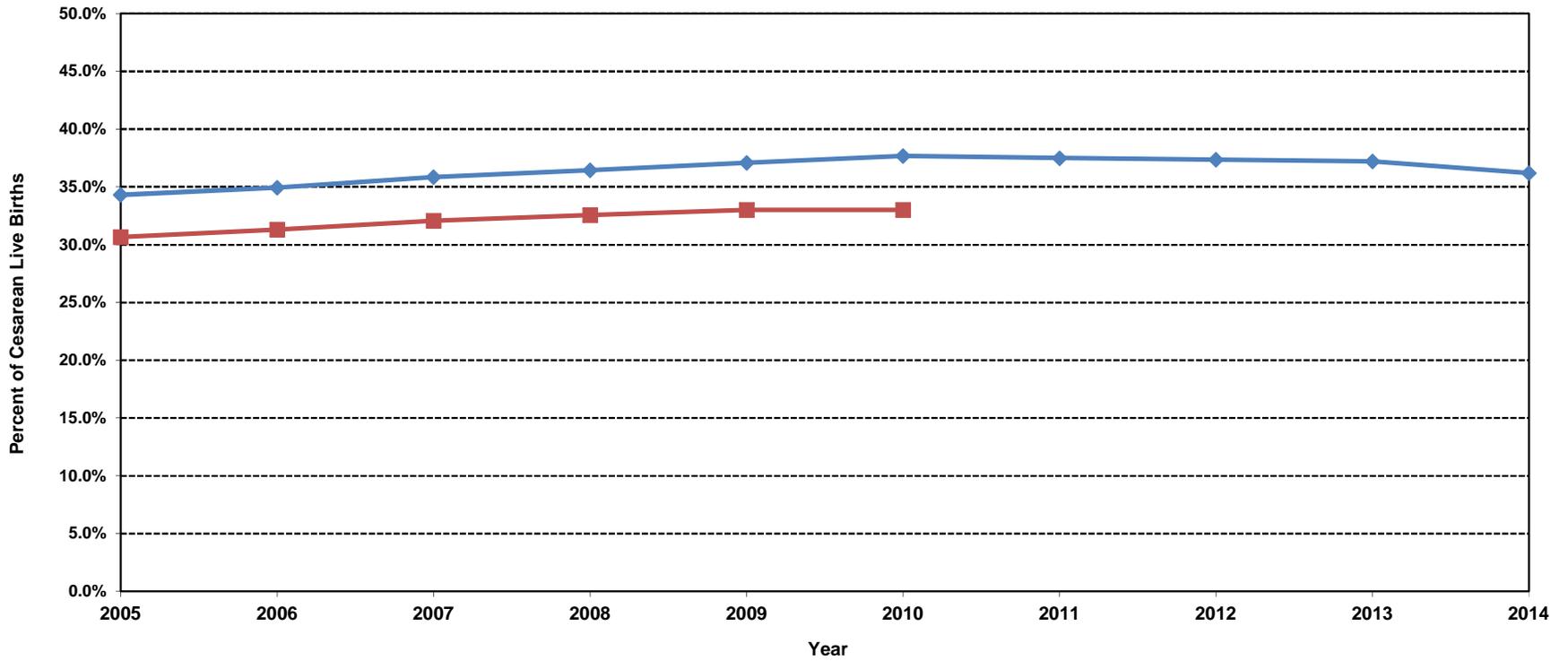
Year	California				Los Angeles County			
	Total C-Section Live Births		95% Confidence Interval		Total C-Section Live Births		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
2005	168,274	30.7%	26.0%	34.9%	51,596	34.3%	29.4%	38.1%
2006	175,943	31.3%	26.7%	35.6%	53,034	34.9%	30.0%	38.8%
2007	181,574	32.1%	27.4%	36.4%	54,431	35.9%	30.9%	39.8%
2008	179,626	32.6%	27.8%	37.0%	53,838	36.5%	31.4%	40.5%
2009	173,878	33.0%	28.1%	37.5%	51,813	37.1%	31.9%	41.3%
2010	168,379	33.0%	28.0%	37.6%	50,186	37.7%	32.4%	42.0%
2011	#N/A	N/C	N/C	N/C	48,864	37.5%	32.1%	41.9%
2012	#N/A	N/C	N/C	N/C	49,197	37.4%	32.0%	41.7%
2013	#N/A	N/C	N/C	N/C	47,834	37.2%	31.8%	41.6%
2014	#N/A	N/C	N/C	N/C	47,106	36.2%	30.9%	40.5%

Denominator: Total Live Births		
Year	California	LA County
2005	548,700	150,377
2006	562,157	151,837
2007	566,137	151,813
2008	551,567	147,684
2009	526,774	139,679
2010	509,979	133,160
2011	502,023	130,313
2012	503,788	131,697
2013	494,392	128,523
2014	502,973	130,150

Note: California 2011-2014 type of delivery data is currently unavailable. Rates are not calculated (N/C).  
 Sources: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2005-2014.

**Percent of Cesarean Live Births  
California vs. Los Angeles County, 2005-2014**

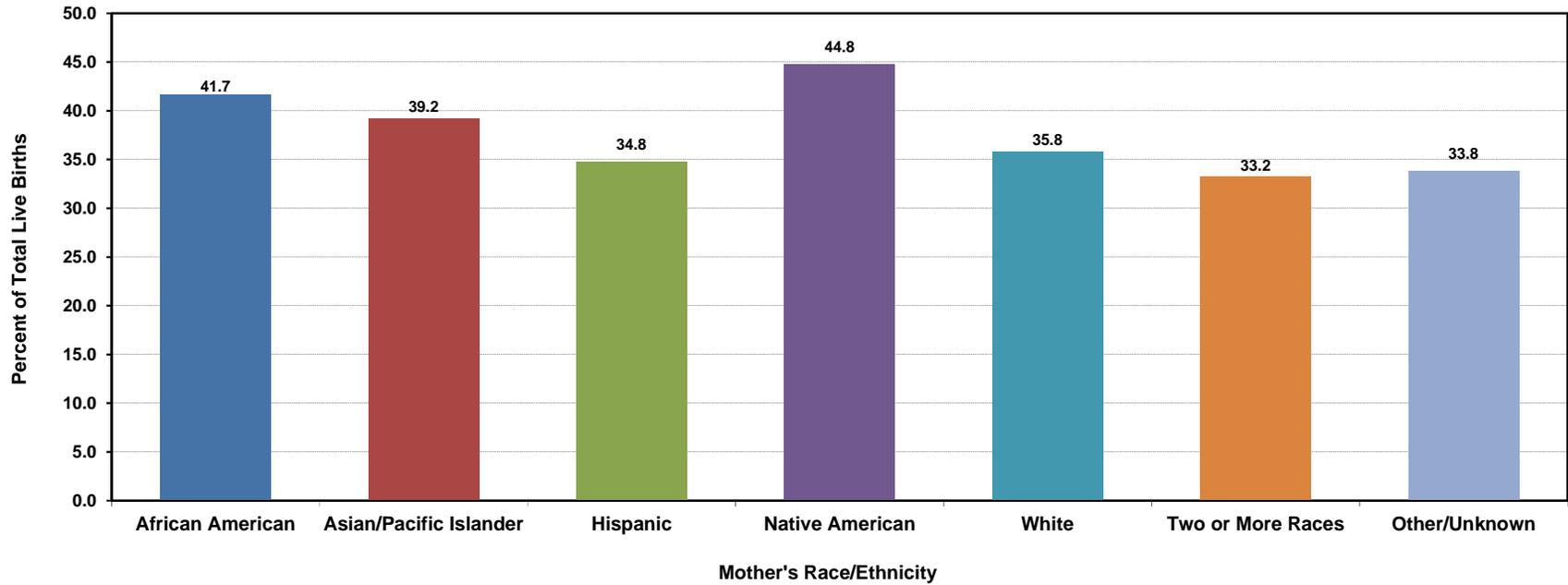
California Los Angeles County



Note: California 2011-2014 data on type of delivery is not available.

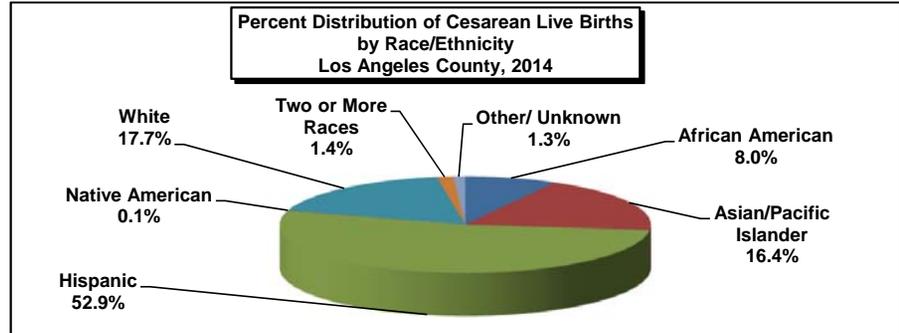
Sources: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2005-2014.

**Cesarean Live Births, as Percent of Total Live Births by Mother's Race/Ethnicity  
Los Angeles County, 2014**



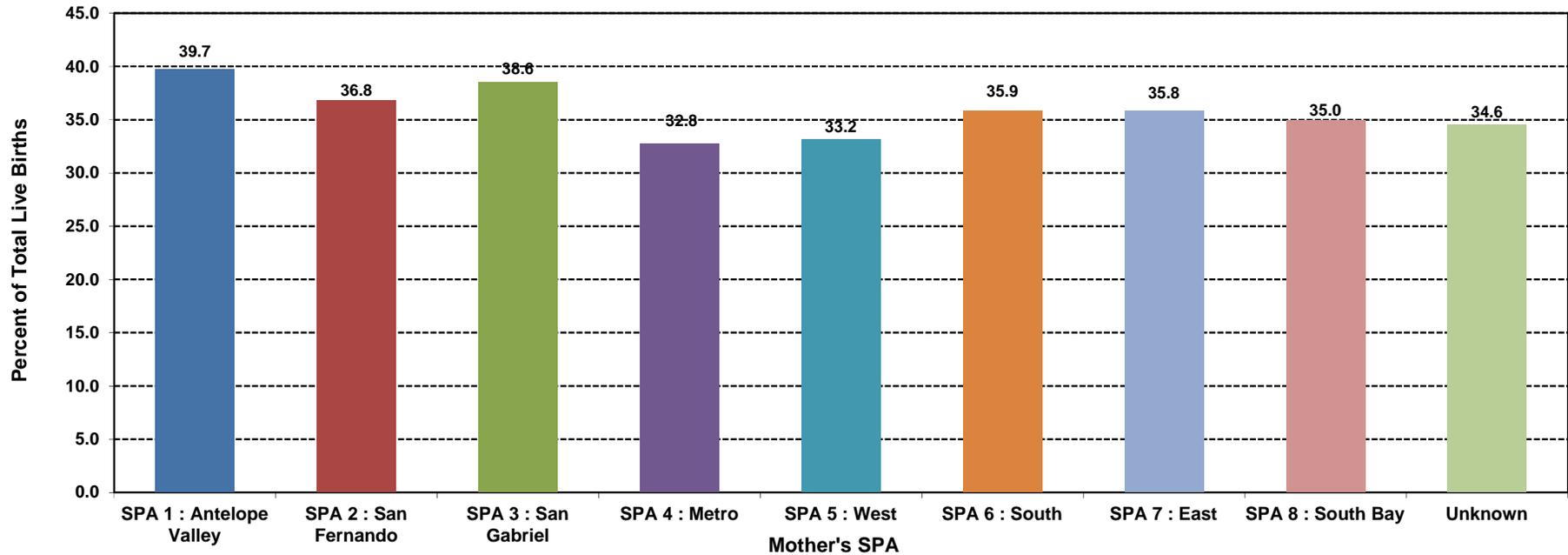
Mother's Race/Ethnicity	Los Angeles County, 2014			
	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
African American	3,779	41.7	40.7	42.7
Asian/Pacific Islander	8,855	39.2	38.6	39.8
Hispanic	24,901	34.8	34.4	35.1
Native American	64	44.8	36.6	52.9
White	8,349	35.8	35.2	36.4
Two or More Races	671	33.2	31.2	35.3
Other/Unknown	487	33.8	31.4	36.3
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

Total Live Births
9,069
22,586
71,566
143
23,327
2,020
1,439
<b>130,150</b>



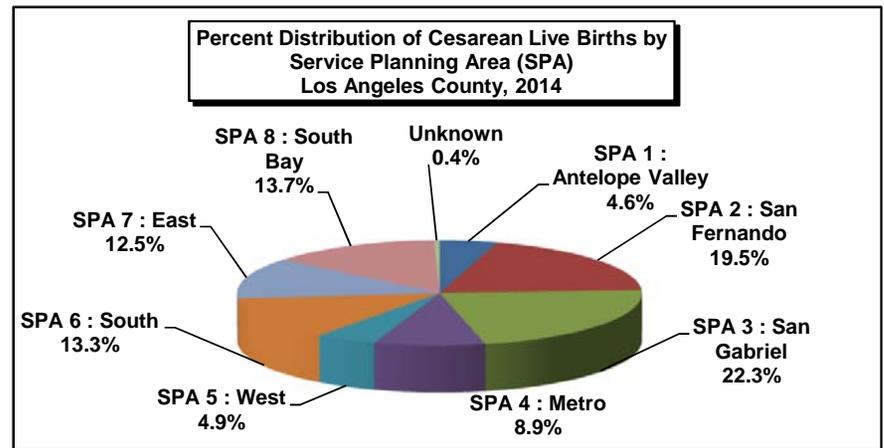
Note: African American, Asian/Pacific Islander, Native American, White and other races exclude Hispanic ethnicity. Hispanic includes any race category.  
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

**Cesarean Live Births, as Percent of Total Live Births by Service Planning Area (SPA)  
Los Angeles County, 2014**



Los Angeles County, 2014				
Service Planning Area (SPA)	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
SPA 1 : Antelope Valley	2,175	39.7	38.4	41.0
SPA 2 : San Fernando	9,180	36.8	36.2	37.4
SPA 3 : San Gabriel	10,490	38.6	38.0	39.1
SPA 4 : Metro	4,171	32.8	31.9	33.6
SPA 5 : West	2,289	33.2	32.1	34.3
SPA 6 : South	6,277	35.9	35.1	36.6
SPA 7 : East	5,882	35.8	35.1	36.6
SPA 8 : South Bay	6,431	35.0	34.3	35.6
Unknown	211	34.6	30.8	38.4
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

Total Live Births
5,473
24,923
27,203
12,732
6,898
17,504
16,410
18,397
610
<b>130,150</b>

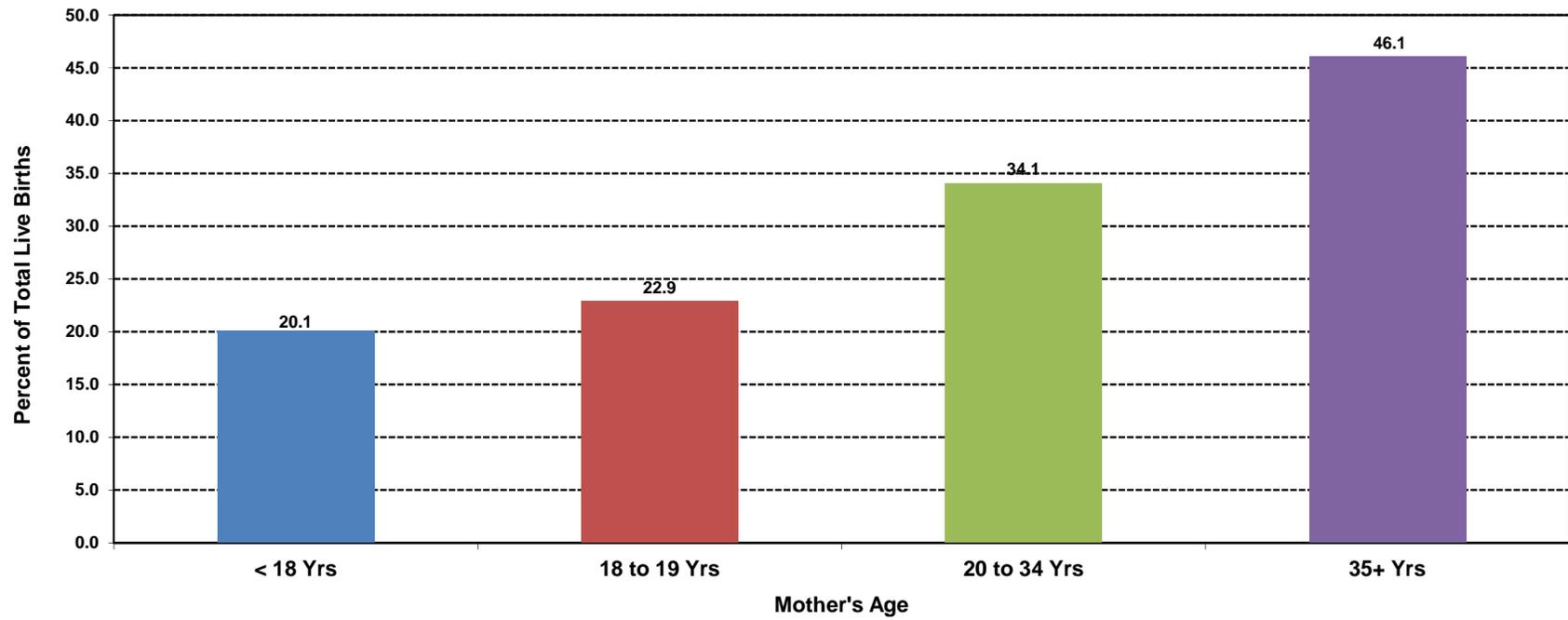


Note: SPA 8 includes Catalina Island.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

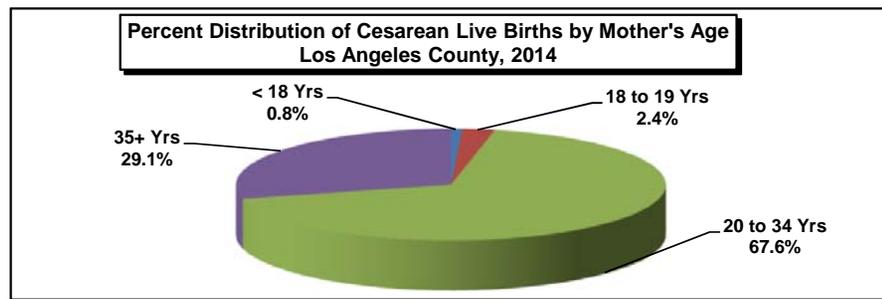
July 1, 2010 Population Estimates, prepared by Walter R. McDonald & Associates, Inc. (WRMA) for Urban Research, Los Angeles County ISD.

**Cesarean Live Births, as Percent of Total Live Births by Mother's Age  
Los Angeles County, 2014**



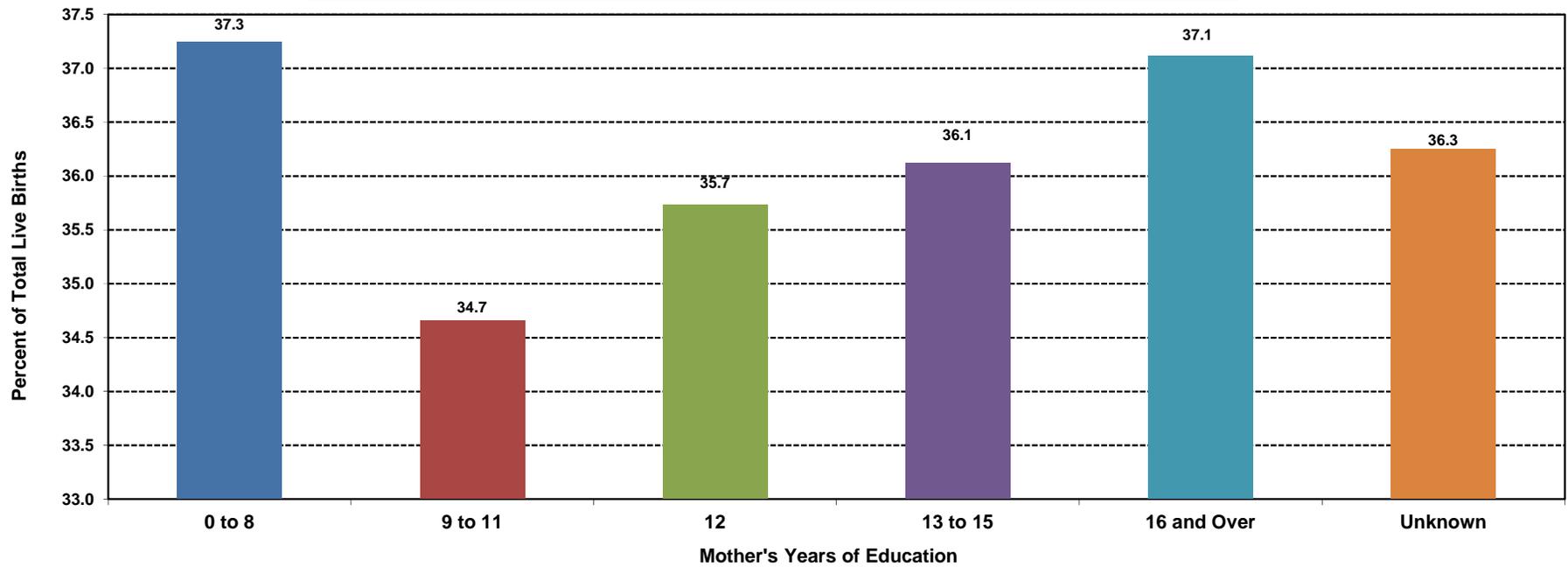
Los Angeles County, 2014				
Mother's Age	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
< 18 Yrs	400	20.1	18.4	21.9
18 to 19 Yrs	1,153	22.9	21.8	24.1
20 to 34 Yrs	31,841	34.1	33.8	34.4
35+ Yrs	13,712	46.1	45.6	46.7
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

Total Live Births
1,987
5,026
93,405
29,719
<b>130,150</b>



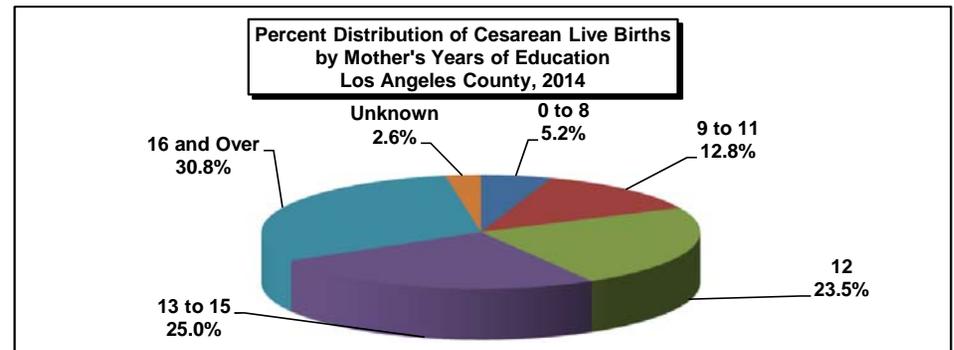
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

**Cesarean Live Births, as Percent of Total Live Births by Mother's Years of Education  
Los Angeles County, 2014**



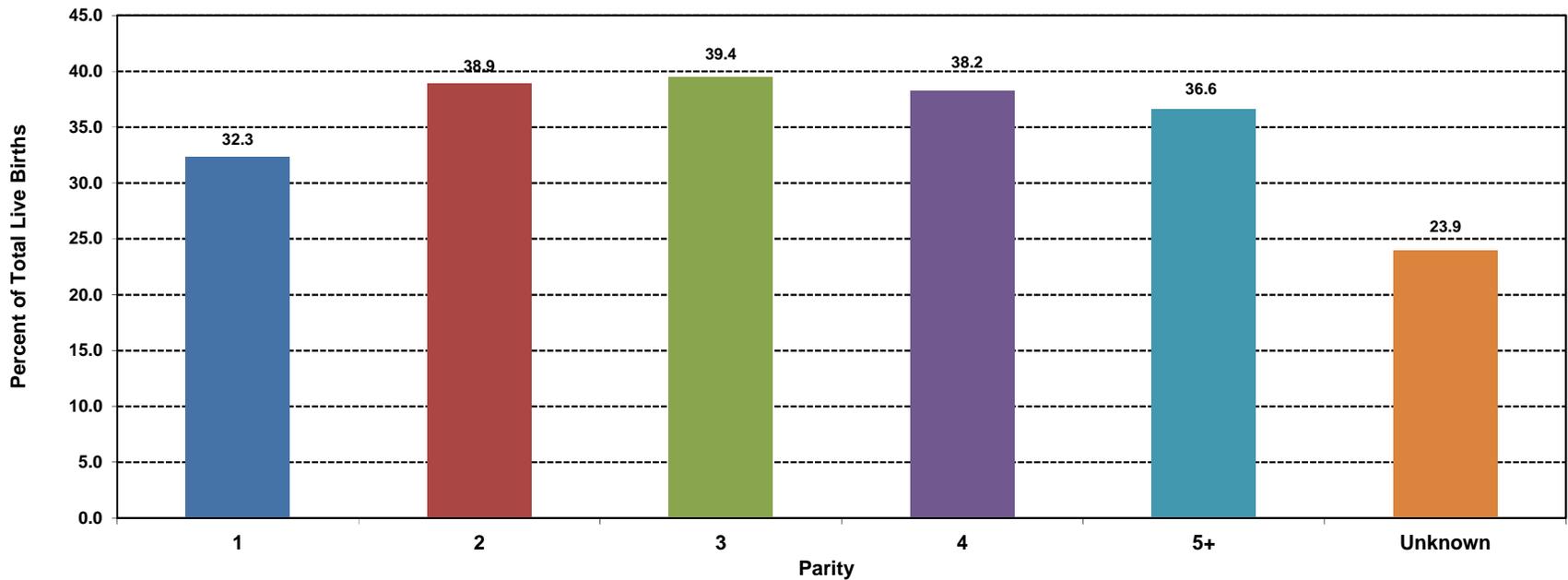
Los Angeles County, 2014				
Mother's Years of Education	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
0 to 8	2,460	37.3	36.1	38.4
9 to 11	6,050	34.7	34.0	35.4
12	11,090	35.7	35.2	36.3
13 to 15	11,760	36.1	35.6	36.6
16 and Over	14,513	37.1	36.6	37.6
Unknown	1,233	36.3	34.6	37.9
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

Total Live Births
6,604
17,457
31,034
32,556
39,098
3,401
<b>130,150</b>



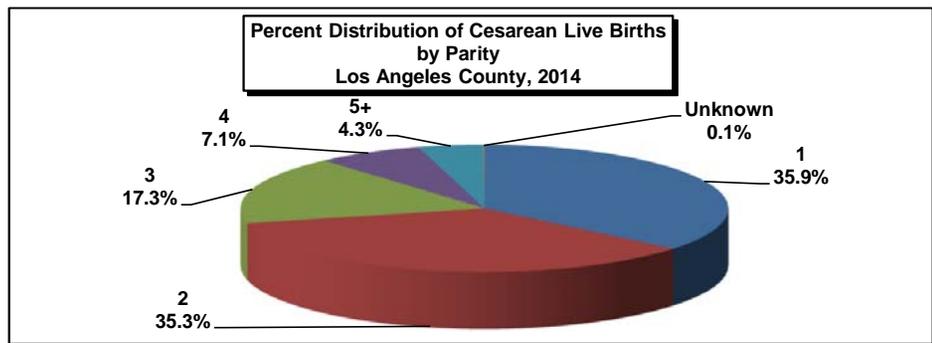
Note: This analysis did not adjust for teen mothers who may not be old enough to have reached a higher categorical education level.  
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

**Cesarean Live Births, as Percent of Total Live Births by Parity  
Los Angeles County, 2014**



Los Angeles County, 2014				
Parity	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
1	16,929	32.3	31.9	32.7
2	16,613	38.9	38.4	39.4
3	8,169	39.4	38.8	40.1
4	3,332	38.2	37.2	39.3
5+	2,030	36.6	35.3	37.9
Unknown	33	23.9	16.8	31.0
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

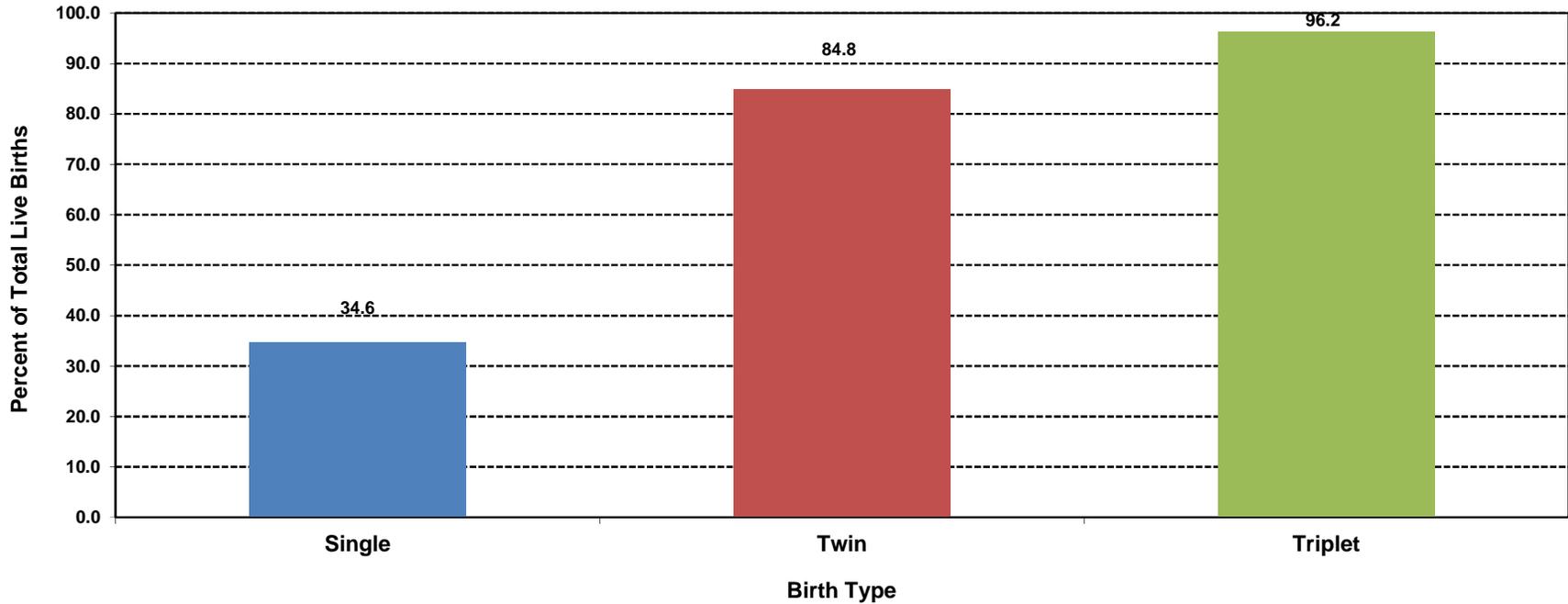
Total Live Births
52,338
42,703
20,711
8,713
5,547
138
<b>130,150</b>



Note: Parity = number of pregnancies resulting in live births to a woman.

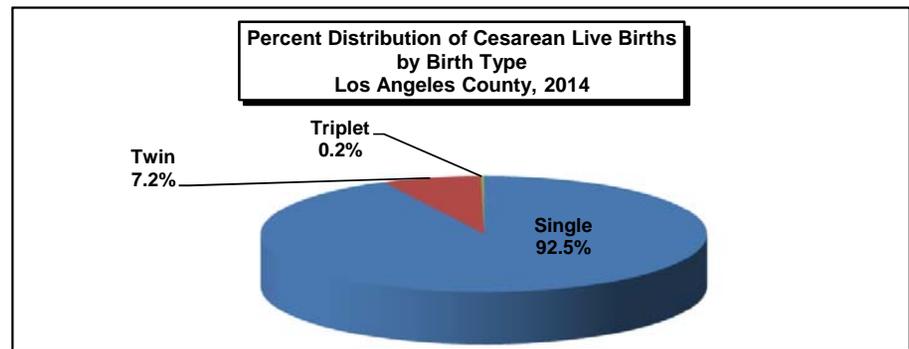
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

**Cesarean Live Births, as Percent of Total Live Births by Birth Type  
Los Angeles County, 2014**



Los Angeles County, 2014				
Birth Type	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Single	43,582	34.6	34.3	34.8
Twin	3,414	84.8	83.7	85.9
Triplet	102	96.2	92.6	99.9
Quadruplet	<5	N/C	N/C	N/C
Quintuplet	<5	N/C	N/C	N/C
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

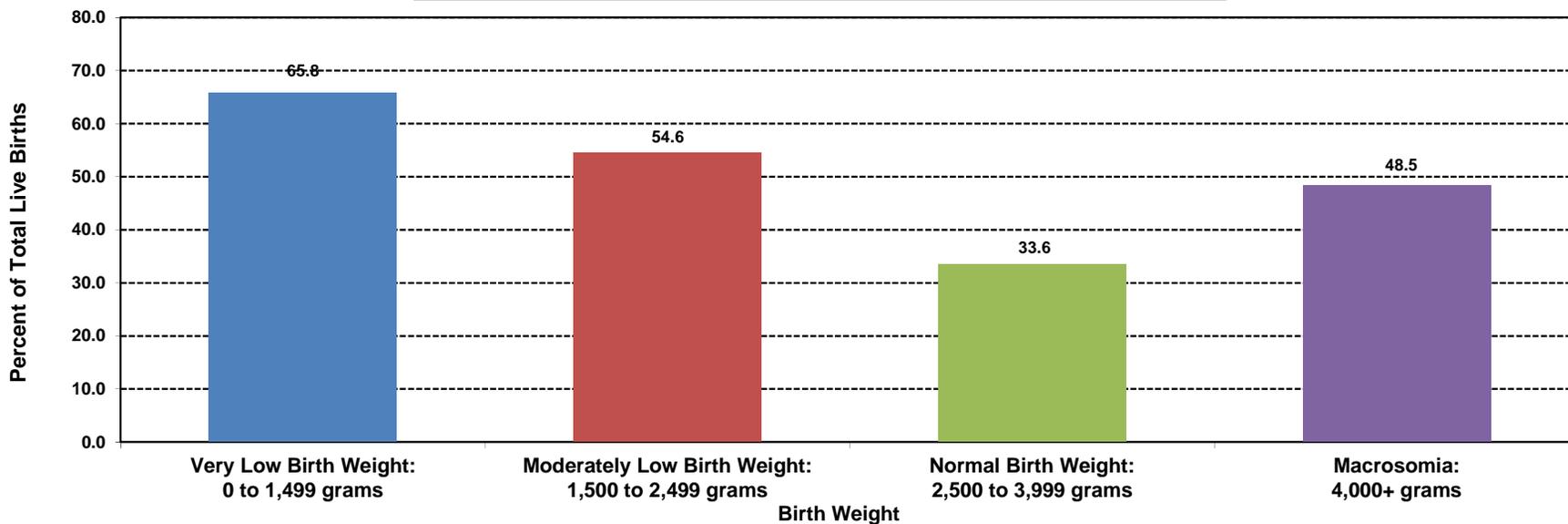
Total Live Births
126,010
4,026
106
<5
<5
<b>130,150</b>



Note: Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

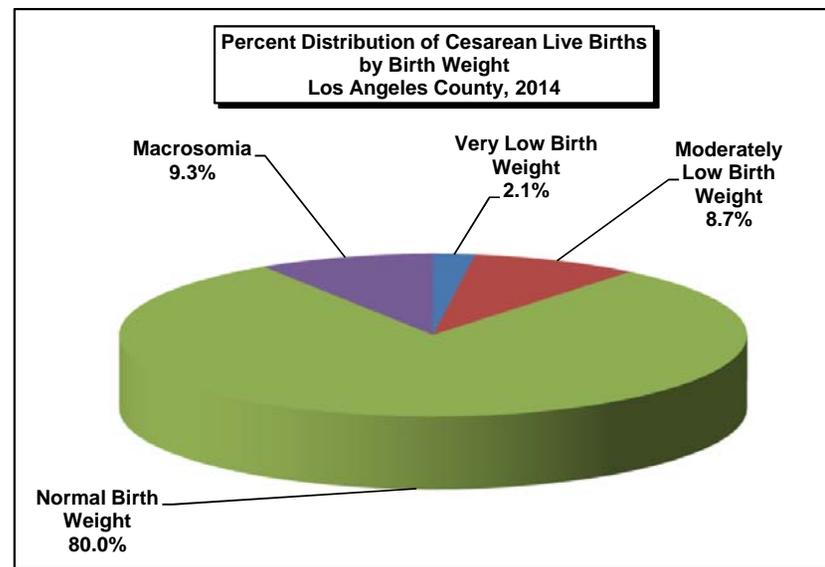
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

**Cesarean Live Births, as Percent of Total Live Births by Birth Weight  
Los Angeles County, 2014**



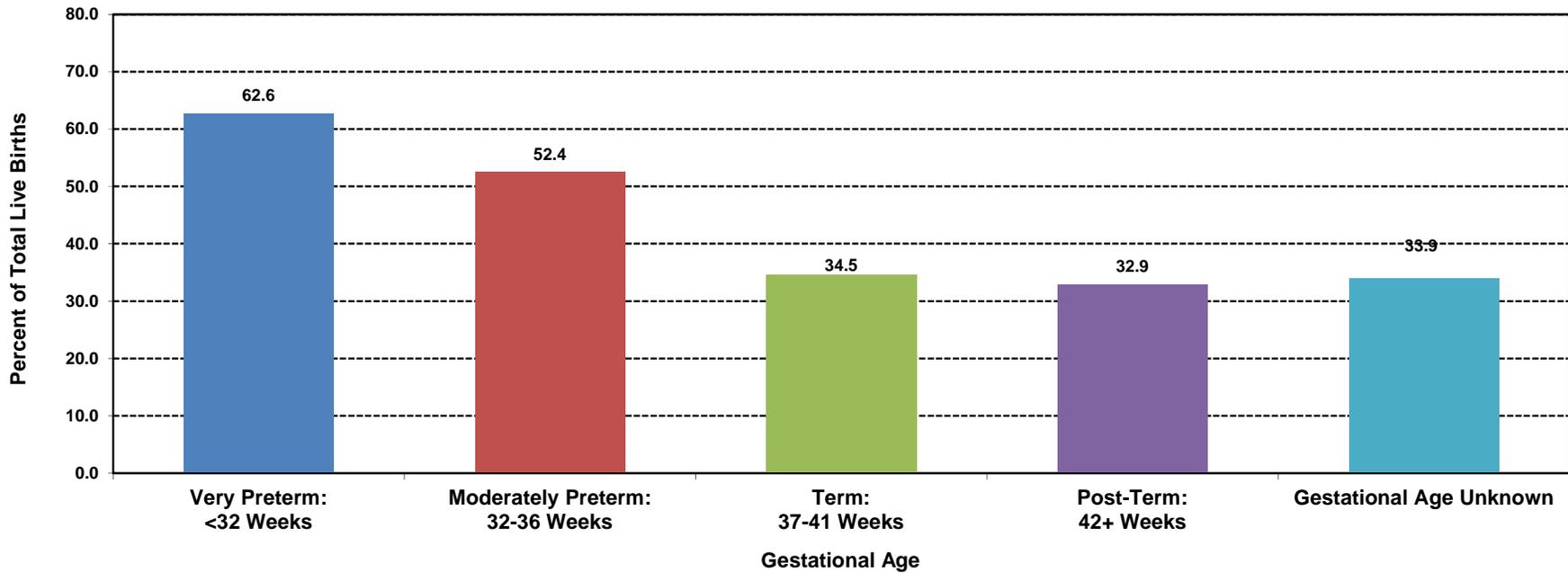
Los Angeles County, 2014				
Birth Weight	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Very Low Birth Weight: 0 to 1,499 grams	1,012	65.8	63.4	68.1
Moderately Low Birth Weight: 1,500 to 2,499 grams	4,080	54.6	53.5	55.7
Normal Birth Weight: 2,500 to 3,999 grams	37,727	33.6	33.3	33.9
Macrosomia: 4,000+ grams	4,287	48.5	47.5	49.5
Unknown	<5	N/C	N/C	N/C
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

Total Live Births
1,539
7,474
112,291
8,839
<5
<b>130,150</b>



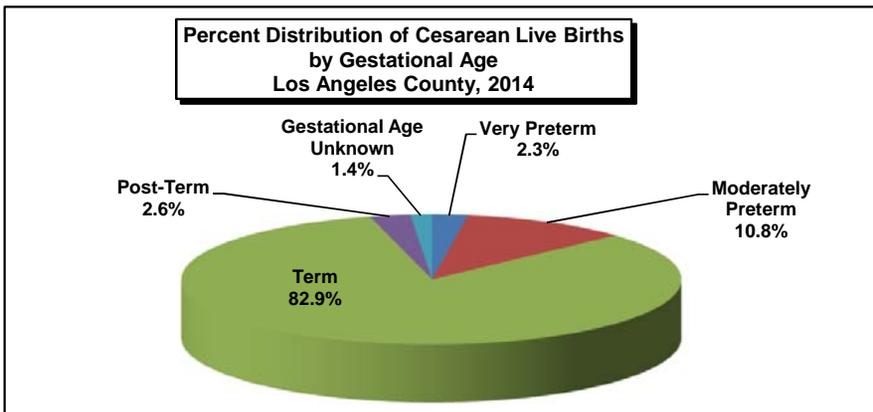
Note: Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.  
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

**Cesarean Live Births, as Percent of Total Live Births by Gestational Age  
Los Angeles County, 2014**



Los Angeles County, 2014				
Gestational Age	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Very Preterm: <32 Weeks	1,085	62.6	60.4	64.9
Moderately Preterm: 32-36 Weeks	5,089	52.4	51.4	53.4
Term: 37-41 Weeks	39,050	34.5	34.3	34.8
Post-Term: 42+ Weeks	1,232	32.9	31.4	34.4
Gestational Age Unknown	650	33.9	31.8	36.1
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

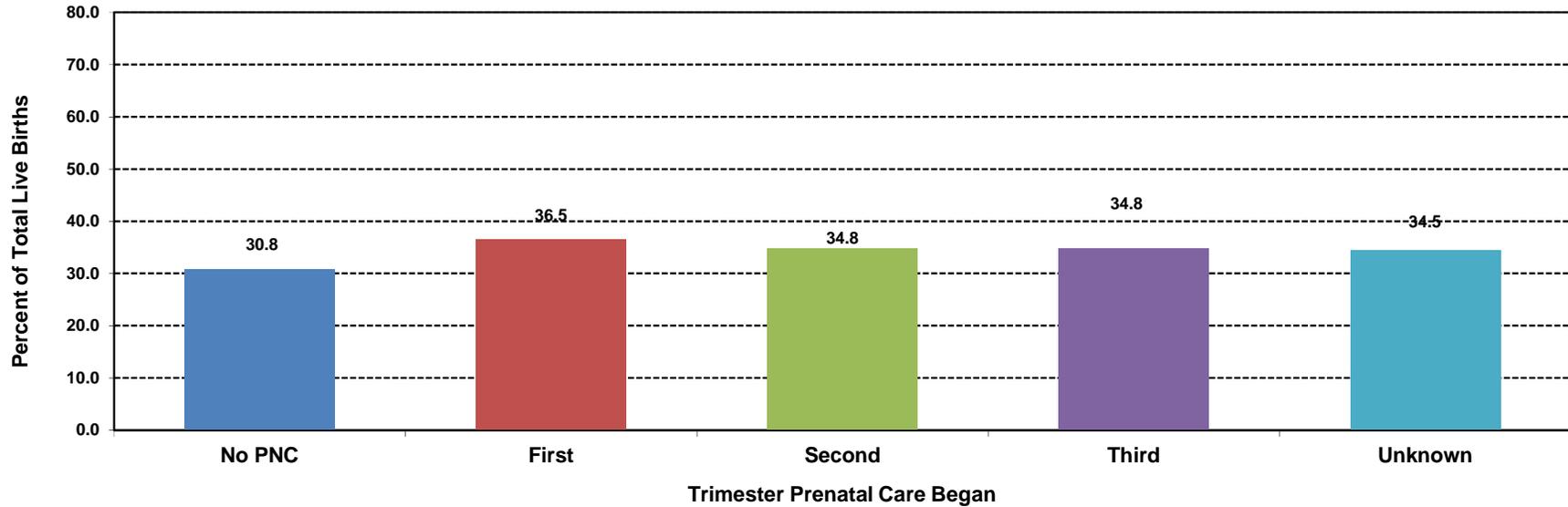
Total Live Births
1,732
9,710
113,046
3,747
1,915
<b>130,150</b>



Note: Unknown includes those weeks of gestation not stated, less than 17 weeks of gestation, and 53 weeks or more gestation. These categories reflect inaccuracies rather than actual gestation periods. Gestation is calculated from reported date of last menses.

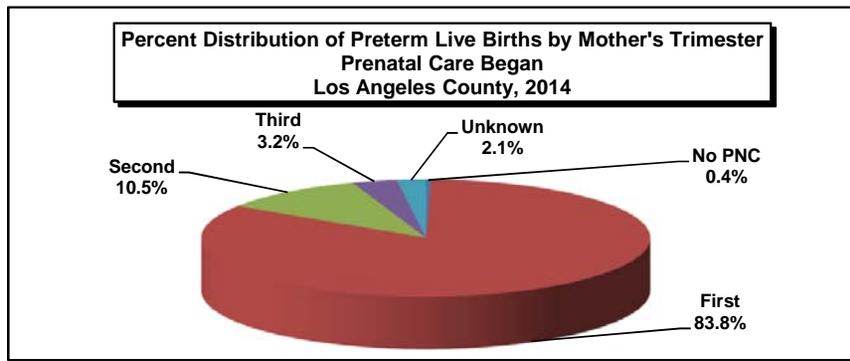
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

**Cesarean Live Births, as Percent of Total Live Births by  
Mother's Trimester Prenatal Care (PNC) Began  
Los Angeles County, 2014**



Los Angeles County, 2014				
Mother's Trimester Prenatal Care Began	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
No PNC	167	30.8	26.9	34.7
First	39,477	36.5	36.2	36.8
Second	4,962	34.8	34.1	35.6
Third	1,515	34.8	33.4	36.2
Unknown	985	34.5	32.8	36.3
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

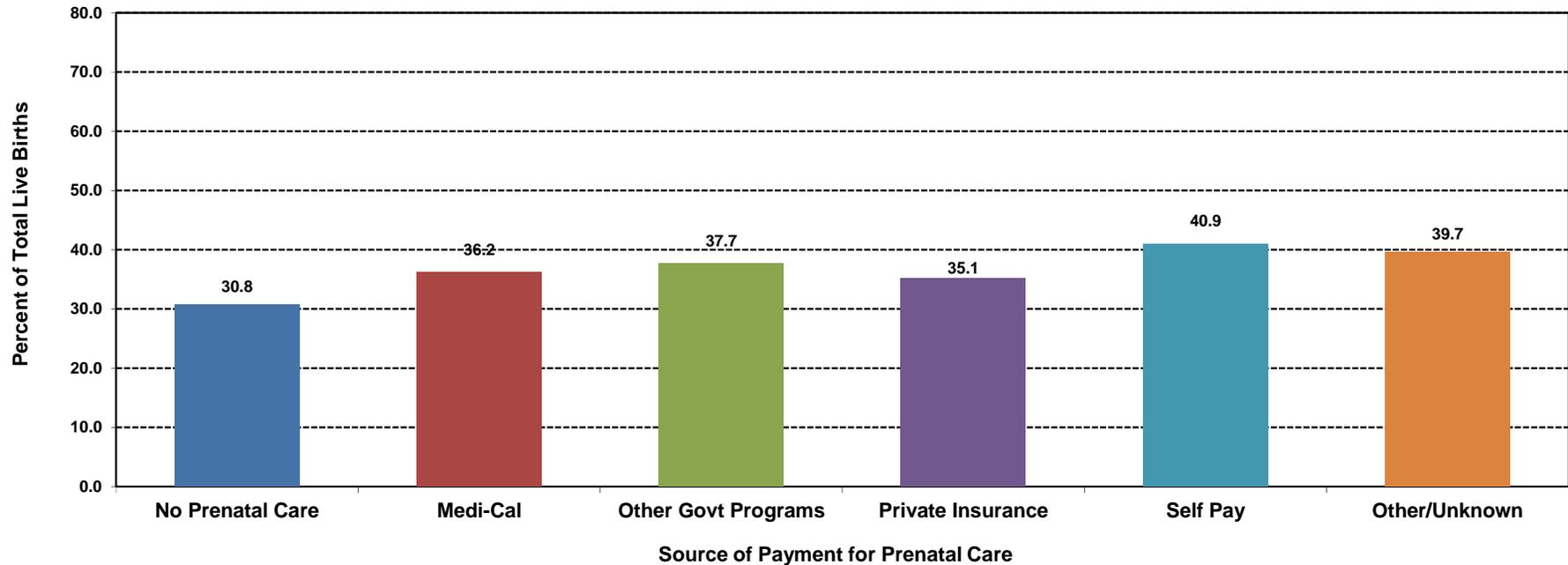
Total Live Births
542
108,161
14,242
4,351
2,854
<b>130,150</b>



Note: "Trimester Prenatal Care (PNC) Began" excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

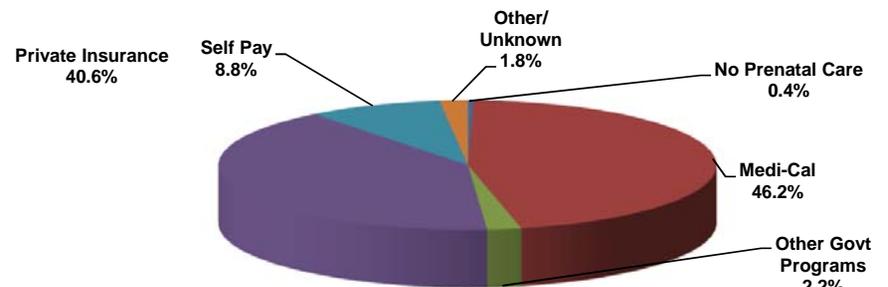
**Cesarean Live Births, as Percent of Total Live Births by Source of Payment for Prenatal Care (PNC)  
Los Angeles County, 2014**



Los Angeles County, 2014				
Prenatal Care Payment Source	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	167	30.8	26.9	34.7
Medi-Cal	21,773	36.2	35.9	36.6
Other Govt Programs	1,036	37.7	35.9	39.6
Private Insurance	19,143	35.1	34.7	35.5
Self Pay	4,126	40.9	39.9	41.8
Other/Unknown	861	39.7	37.6	41.7
<b>Total</b>	<b>47,106</b>	<b>36.2</b>	<b>35.9</b>	<b>36.5</b>

Total Live Births
542
60,087
2,745
54,512
10,093
2,171
<b>130,150</b>

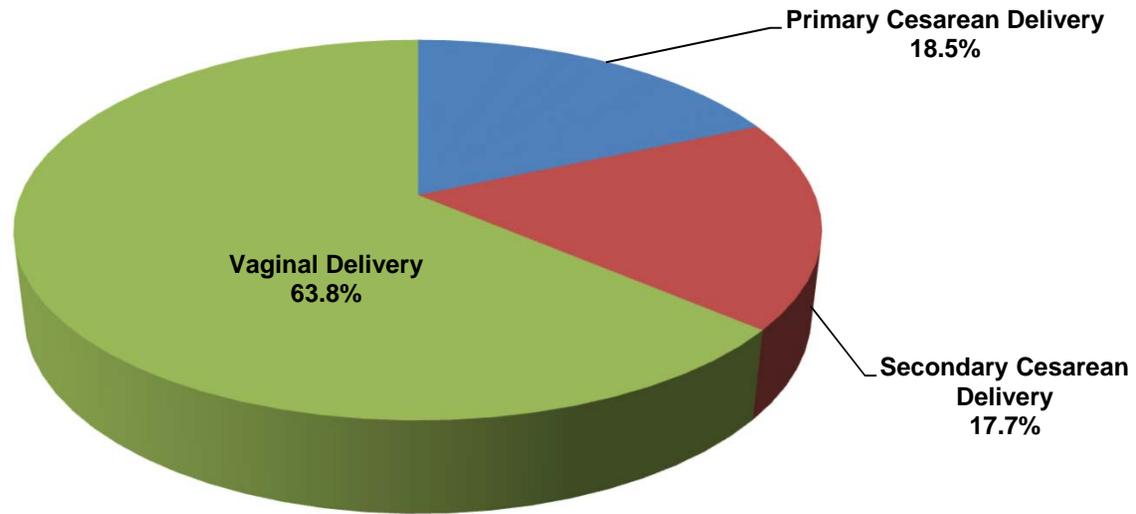
**Cesarean Live Births by source of Payment for Prenatal Care  
Los Angeles County, 2014**



Note: "Trimester Prenatal Care (PNC) Began" excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.

**Total Live Births by Method of Delivery  
Los Angeles County, 2014**



Los Angeles County, 2014				
Method of Delivery	Number of Live Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Primary Cesarean Delivery	24,040	18.5%	16.1%	20.8%
Secondary Cesarean Delivery	23,066	17.7%	15.4%	20.0%
Vaginal Delivery	83,044	63.8%	59.5%	68.1%
<b>Total</b>	<b>130,150</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2014.